

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

**M74355**

**Trade Name:** Mini Turf 16-8-8 with 0.4% Barricade®  
**Registration No:** 7001-385

**SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

<b>Manufactured For:</b>	J.R. Simplot Company P.O. Box 70013 Boise, ID 83707	<b>Product Name:</b> Mini Turf 16-8-8 with 0.4% Barricade® <b>Common Name:</b> 16-8-8 <b>Chemical Type:</b> Inorganic Chemical Fertilizer with Pesticide
<b>Emergency Phone - Chemtrec:</b>	1-800-424-9300	

**SECTION 2 COMPOSITION INFORMATION**

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
Prodiamine	29091-21-2	Not listed	<b>Hazardous</b> 0.4%	Not Indicated	Not Indicated
This is a homogeneous granular product containing:			<b>Non-Hazardous</b> 99.6%	10 mg/m <sup>3</sup> Nuisance Dust	15 mg/m <sup>3</sup> Nuisance Dust
Ammonium Sulfate	7783-20-2	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>			
Monoammonium Phosphate	7722-76-1	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>			
Potassium Chloride	7447-40-7	KCl			
Iron Oxyulfate	not listed	not listed			

**SECTION 3 HAZARDS IDENTIFICATION**

**Ingestion:** May cause aggravation to respiratory tract.  
**Inhalation:** Avoid breathing dusts. May cause nose, throat and lung aggravation.  
**Eye Contact:** May cause aggravation.  
**Skin Contact:** May cause aggravation.  
**Other health warnings:** Call a physician if any aggravation persists. Wash hands after use, and wash all contaminated clothing before reuse.

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** Immediately seek medical assistance. Call a physician. (National Poison Control Center 202-625-3333). Drink 1 to 2 glasses of water. Induce vomiting by touching the back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person.  
**Inhalation:** Remove to fresh air. If breathing difficulty occurs, get immediate medical attention.  
**Eyes:** Immediately flush with plenty of water for 15 minutes, holding lids open. Get medical attention if discomfort persists.  
**Skin:** Wash all exposed areas with plenty of soap and water and rinse thoroughly.  
**Note to Physician:** Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media:** Water spray, foam, dry chemical, CO<sub>2</sub>, sand, or fine earth.  
**Special Fire Fighting Procedures:** Wear full protective clothing and self-contained breathing apparatus. Short term exposure to smoke, fumes, and gases can lead to irreversible lung injury without early signs and symptoms. Use extinguishing media suitable for the surrounding fire.  
**Unusual Fire and Explosion Hazards:** Burning product may produce noxious, toxic fumes. Run-off from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:**  
Do not touch spilled product. Wear protective clothing, chemical-resistant gloves, shoes and safety glasses or goggles. Use approved respirator if exposure levels are high. If materials are uncontaminated, collect in resealable containers, label containers and reuse as directed on label. Do not reuse bag.

**SECTION 7 HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:**  
Store in original container in a locked storage area inaccessible to children or pets. Store separately from food, feed, fertilizer, seeds, and other pesticides so that cross contamination does not occur.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** None required with normal use of product.  
**Respiratory Protection:** None required with normal use of product.  
**Protective Clothing:** Wear long-sleeved shirt and pants; shoes and socks, and impervious gloves.  
**Eye Protection:** Safety glasses with side shields, or goggles are recommended.  
**Other:** Washing facilities should be available.

Trade Name: Mini Turf 16-8-8 with 0.4% Barricade®  
Registration No: 7001-385

M74355

**SECTION 9**

**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	Not applicable	<b>pH:</b>	Not listed.
<b>Density:</b>	68-70 lb/ft <sup>3</sup>	<b>% Volatiles (by volume):</b>	Not listed
<b>Flashpoint:</b>	Non-flammable	<b>Vapor Pressure, mm Hg:</b>	Not applicable
<b>Extinguishing Media:</b>	Use media suitable for extinguishing source of fire.	<b>Reaction with Water:</b>	Not listed.
<b>Solubility in Water:</b>	Fertilizer chemicals are water soluble. Herbicide compound and polyurethane coating are water insoluble.		
<b>Appearance:</b>	Beige, brown, white and green fertilizer granules. Slight aromatic and fertilizer salt odor.		

**SECTION 10**

**STABILITY AND REACTIVITY**

<b>Stability (Normal Conditions):</b>	Stable
<b>Conditions to Avoid:</b>	None listed.
<b>Incompatibility (Material to Avoid):</b>	Store separately from acids and bases.
<b>Hazardous Decomposition Products:</b>	Thermal degradation may produce: cyanuric acid, ammonia, biuret, hydrogen cyanide, hydrogen fluoride, carbon monoxide, chlorine gas, sulfur oxides, and nitrogen oxides.
<b>Hazardous Polymerization:</b>	Will not occur.

**SECTION 11**

**TOXICOLOGY INFORMATION**

	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rat)</u>	<u>Aquatic Fish 96-hour</u>	<u>Aquatic (other)</u>
<b>Monoammonium Phosphate</b>	> 2,000 mg/kg	> 5,000 mg/kg	> 86 mg/L (rainbow trout)	none listed
<b>Ammonium Sulfate</b>	640-4,250 mg/kg	> 2,000 mg/kg	> 13.6-159.8 mg total NH <sub>3</sub> /L	> 27.0 mg/total NH <sub>3</sub> /L (daphnia)
<b>Potassium Chloride</b>	1,500-2,600 mg/kg	none listed	2,010 mg/L	none listed

All toxicity data from TFI Product Testing Results.

**SECTION 12**

**ECOLOGICAL INFORMATION**

None listed.

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** If uncontaminated, use as directed on label. If contaminated, dispose of in accordance with all federal, state and local laws. Pesticide wastes are toxic. Do not contaminate water supplies. Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of federal law.

**SECTION 14**

**TRANSPORT INFORMATION**

<b>Shipping name:</b>	Not regulated by DOT	<b>C.A.S. Number:</b>	See "Ingredients"
<b>Hazard Class:</b>	None	<b>D.O.T. Number:</b>	None
<b>Reportable Quantity (RQ):</b>	None	<b>Haz Waste No:</b>	None
<b>Labels Required:</b>	None	<b>EPA Regist No:</b>	7001-385
<b>Placard:</b>	None		

**SECTION 15**

**REGULATORY INFORMATION**

**Carcinogenicity:** by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)

Not on the SARA 302 list of reportable quantities.

**SECTION 16**

**OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	Not applicable	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	Not applicable	(% BY VOLUME)	N/A	N/A

Barricade® is a registered trademark of Syngenta Crop Protection Inc.

MSDS Version Number: 4

**Disclaimer:** This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED.** It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.